

Weight check equations for ...

S/194/62/000/006/003/232  
D222/D309

where  $W$  is a polynomial with integer coefficients. Every arithmetical operation occurring in a computer can be described in the form of Eq. (3). The considerations are confined to numbers (1), (2), satisfying the relations

$$\begin{cases} x^{(k)} = \varepsilon^{(k)} \sum_{i=0}^n x_i^{(k)} g^i & (i \leq k \leq s) \\ y^{(1)} = \eta^{(1)} \sum_{i=0}^n y_i^{(1)} g^i & (i \leq 1 \leq t), \end{cases}$$

where  $g, x_i^{(k)}, y_i^{(1)}$  are integers, while,  $g \geq 2, 0 \leq x_i^{(k)}, y_i^{(1)} \leq g-1$ . The automatic check is reduced to verifying the relationships between the initial data (1) and the result of the arithmetical operation (2), using special checking circuits. The basic theorem, which is the foundation of this method, is proved. 4 references. [Abstracter's note: Complete translation.]  
Card 2/2

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S/194/62/000/006/003/232  
D222/D309

9.7100

AUTHOR: Majerski, Stanisław

TITLE: Weight check equations for arithmetic operations in  
digital computersPERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, .  
no. 6, 1962, abstract 6-1-10 sh (Prace zakł. apar.  
mat. PAN, 1961, A, no. 12, pp. 53-58)TEXT: A method of automatic checking of the arithmetical opera-  
tions in digital computers is described. To a sequence of integers  
at the input of a device

$$x(1), x(2), \dots, x(3) \quad (1)$$

there corresponds a unique sequence of integers at the output

$$y(1), y(2), \dots, y(t). \quad (2)$$

For every calculating device we can write a relationship

$$W(x^{(1)}, \dots, x^{(3)}, y^{(1)}, \dots, y^{(t)}) = 0 \quad (3)$$

Card 1/2

MAJERSKI, S.

Weight check equations for arithmetic operations in digital computers.  
Bul Ac Pol tech 9 no.1:53-58 '61. (EEAI 10:9)

1. Institute of Mathematical Machines, Polish Academy of Sciences.  
Presented by J. Groszkowski.

(Electronic digital computers)

HAJERSKI, Boleslaw, mer. eng.

Remarks on receiving and distribution of fuel and power engineering equipment. The number 13 is shown in 165.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031400026-6

MAJERSKI, Boleslaw, mgr inz.

Utilization of waste heat in the chemical industry. Chemik  
17 no. 2: 67-68 F '64.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031400026-6

MAJERSKI, B., mgr inż.

Application of the international system of measuring  
units in industry. Chemik 17 no.1:28-29 Ja'64.

MAJERSKI, B., mgr inz.

Application of the international system of measuring  
units, a topic of a scientific and technological conference  
of electric power engineers of the chemical industry.  
Gosp paliw 12 no. 3: 104-105 Hr '64

MAJERSKI, Boleslaw, mgr inz.

Technical progress of the chemical industry in power engineering.  
Chemik 16 no.11:353-354 W '63.



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031400026-6

MAJERSKI, Boleslaw, mgr inz.

Scientific and technological conference on the technological  
progress in power engineering in the chemical industry. Gosp  
paliw 11 no.12:475-476,479 D'63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031400026-6

GCHEDUSZKO, Stanislaw, prof. dr inż.; MAJERSKI, Boleslaw, mgr inż.

Use of steam ejectors in industry. Pt.3. Gosp paliw 11  
no.11:408 412 1955.

OCHEDUSZKO, Stanislaw, prof. dr inz.; MAJERSKI, Boleslaw, mgr inz.

Application of steam ejectors in industry. Pt. 2. Gosp paliw 11  
no.7:245-248 J1 '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031400026-6

OCHEDUSZKO, Stanislaw, prof. dr inz.; MAJERSKI, Boleslaw, mgr inz.

Application of steam ejectors in industry. Pt. 1. Gosp paliw  
11 no.5:164-168 My '63.

MAJERSKI, ALEKSANDER

GEOGRAPHY & GEOLOGY

MAJERSKI, ALEKSANDER, Warszawa w rysunkach Aleksandra Majerskiego  
(napisali) Alina Sokółowska i Antonia Zalewska. Warszawa, Wydawn.  
Arkady, 1958. 60 p. (Warsaw in drawings of Aleksander Majerski.  
illus.) MIDW Not in DLC

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,  
May 1959, Unclass.

MAJEWSKA, Magdalena; MIAZEK, Urszula; STASZEWSKA, Halina; TUSZKIEWICZ, Ewa; WASAK, Henryk

Analysis of the morbidity and clinical picture of leukemia in children in 1949-1961. Pol. tyg. lek. 19 no.47:1813-1815  
23 N°64

1. Z II Kliniki Pediatricznej Akademii Medycznej w Lublinie  
(kierownik: doc. dr. med. A. Gabala).

MAJERSKA, Irena

Aqueous emulsions of lubricating oils for lubrication of locomotive engines. Przegl kolej mechan 15 no. 5: 142-144 My '63.

1. Centralny Ośrodek Badań i Rozwoju Techniki Kolejnictwa, Warszawa.

ZEBROWSKI, Leon; MAJERSKA, Halina; BYCZYNSKI, Zbigniew

Investigations on the variability of the pathogenicity of  
Newcastle Disease Virus (NDV). Acta microbiol. 101 12  
no.3:205-210 '64.

1. From the Laboratory of General Virology, Institute of  
Veterinary Research, Pulawy.



MAJEWSKA, Halina

Effect of factors destroying cell receptors on formation of  
incomplete particles of Newcastle Disease Virus (NDV).  
Acta microbiol. Pol 13 no.3:195-204 '64.

1. From the Laboratory of General Virology, Institute of Veterinary  
Research, Pulawy.

MAJERS, S.

One-family houses built of reed. p. 6

ROLNIK SPOLDZIELCA (Centrala Rolniczej Spoldzielni "Samopomoc Chlopska")  
Warszawa, Poland Vol. 8, No. 45, Nov. 1955

Monthly list of East European accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960

uncl.

Part I. KLEMSKI, Eugeniusz; MAJEROWSKI, Jan

Studies on remote results of lumbar sympathectomy using the sweat test. Pol. przeł. chir. 36 no.5:677-686 My 1961.

I. Z I Kliniki Chirurgicznej Akademii Medycznej w Poznaniu (Główny prof. dr C. Nowicki).

ZAWILSKI, Jerzy; MAJEROWSKI, Jan

Abdominal injuries. Polski przegl. chir. 35 no.6:611-617 '63.

1. Z I Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr  
S. Nowicki.

(ACCIDENTS, TRAFFIC) (ABDOMINAL INJURIES)  
(STATISTICS)

MAJEROWICZ, Alfred

Staurolite from the metamorphic schists of the vicinity of  
Glucholazy. Archiw min 23 no.1:135-153 '59 [publ. '61].

1. Department of Mineralogy and Petrography, University, Wroclaw.

NOVAK, A.; BENKO, J.; MAJEROVA, A.; VASKEBOVA, M.

Apropos of diseases simulating infectious infantile paralysis.  
Bratisl. lek. listy 44 no.3:139-147 15 Ag '64.

1. Katedra pediatrie II lek. fak. Univ. Komenského v Bratislave  
(veduca prof. MUDr. J. Michalickova); Detske infekcne oddelenie
- 2 polikliniky s postelovou ošetrovanou EBNM v Bratislave (veduca MUDr.  
M. Vaskebova) a Krajska hygienicko-epidemiologicka stanica v  
Bratislave (riaditel MUDr. F. Schatz).

MAJEROVA, Zdz., (Prom biochem); JANOK, J., RNDr.

Anti-cholinesterase activity in vitro of certain compounds of the type of parathion. Pracovni lek. 10 no.1:12-15 Mar 58.

1. Ustav hygieny prace a chorob z povolania v Bratislave, prednosta  
MUDr I. Klucik. Z. M. Bratislava, Ustav hygieny prace.

(PARATHION, related compounds,  
anti-cholinesterase activity in vitro (Cz))

(CHOLINESTERASE, antagonists,  
parathion cpds., in vitro (Cz))

MAJEROVA, Z.

JANOK, J., RNDr. Prom biochem.; MAJEROVA, Z., Prom biochem.; VALENTINOVA, I., Ing.;  
MASEK, J., Ing.; TICHY, V., Ing.

In vitro anticholinesterase effect of coumarin dialkylphosphoric &  
dialkylthiophosphoric acid esters. Pracovni lek. 9 no.6:506-512 Dec 57.

1. Ustav hygieny prace z chorob z povolania v Bratislave, prednosta MUDr.  
I. Klucik: Vyskumny ustav agrochemickej technologie v Bratislave. J. J.  
Bratislava, Ustav hygieny prace.

(COUMARIN, eff.

dialkylphosphoric & dialkylthiophosphoric acid esters, in  
vitro anticholinesterase ff. (Cz))

(CHOLINESTERASE, antag.

coumarin dialkylphosphoric & dialkylthiophosphoric acid esters  
in vitro (Cz))



JIRASEK, K.; MAJEROVA, R.

Therapeutic evaluation of reflex massage. Fysiat. vestib. 43 no.2:  
40-44 F '65

1. Fyziatrické oddelení UVN v Praze (vedoucí - MUDr. V. Štastný).

KLUMPAR, Josef; MAJEROVA, Miroslava

Self-absorption of  $\text{Sr}^{90}$  (+  $\text{Y}^{90}$ ) beta radiation in the preparations with surface density up to  $28 \text{ mg/cm}^2$  measured with a  $4\pi$ -counter. Jaderna energie 10 no. 5:163-171 My '64.

1. Radiological Dosimetry, Institute of Nuclear Research,  
Czechoslovak Academy of Sciences, Prague.

KLUMPAR, Josef; MAJEROVA, Miroslava

Correction of absorption in the carrier film during beta emitter standardization in the  $4\pi$ -counter. Jaderna energie 9 no.10:315-318 0 '63.

1. Radiologicka dozimetrie, Ustav jaderného výzkumu, Československá akademie věd, Praha.

KLUMPAR, Josef; MAJEROVA, Miroslava

Origin of errors in sample preparation for absolute calibration  
of beta radiating solutions by  $4\pi$  counters. Jaderna energie 9  
no.8:258-264 Ag '63.

1. Radiologicka dizimetrie, Ustav jaderneho vyzkumu, Cesko-  
slovenska akademie ved.

Scintillation measurements of...

G/025/62/000/010/004/007  
B164/B102

SUBMITTED: March 2, 1962

Card 3/3

G/025/62/000/010/004/007  
B164/B102

# Scintillation measurements of...

radionuclides at various potentials. The results show that the mixing method can be used for measuring radioactivities higher than  $10^{-10}$  c in small volumes. The flat type of scintillator composed of p-terphenyl with up to  $40 \text{ mg/cm}^2$  developed by R. V. Semova (Atomn. Energ. 5, 1958) is investigated as regards its applicability to measuring residues of evaporation. A diagram relating to the terphenyl scintillator shows the degree of efficiency for photons (0.3-2%), the effect of the surface weight on background pulses and the ratio of background pulse density to efficiency for  $\beta$ -energies of the radionuclides  $\text{Ca}^{45}$ ,  $\text{Co}^{60}$ ,  $\text{Tl}^{204}$ ,  $\text{Sr}^{90}$ ,  $\text{Y}^{90}$  at various potentials of the photomultiplier. A commercial scintillator is compared with the  $\beta$ -scintillator. A terphenyl scintillator of  $15 \text{ mg/cm}^2$  is particularly advantageous since it permits of detecting activities as low as  $5 \cdot 10^{-11}$  c. Comparative results from measurements of the relative efficiency referred to p-terphenyl are given for 1,4 diphenyl butadiene, POPOP, 2,5 diphenyl oxazol, and  $\alpha$ -naphthyl-phenyl oxazol. There are 7 figures and 3 tables. X

ASSOCIATION: Dosimetrische Abteilung des Instituts für Kernforschung der Tschechoslowakischen Akademie der Wissenschaft (Dosimetric Department of the Nuclear Research Institute, Academy of Sciences CSSR)

Card 2/3

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G/025/62/000/010/004/007  
B164/B102

216000

AUTHORS: Klumpar, J., Majerová, M.

TITLE: Scintillation measurements of  $\beta$ -emitters in their aqueous solutions

PERIODICAL: Kernenergie, nos. 10-11, 1962, 774-781

TEXT: This paper, based on available publications, discusses methods of using homogeneous and heterogeneous mixtures of the solution with the scintillator, applicable both to scintillation measurements of aqueous solutions of  $\beta$ -emitters and to measurement of the evaporation residues. The energy dependence of efficiency and the background effects are considered. Details of measurements made by the authors are reported. For a homogeneous mixture, the effect of dissolved salt ( $\text{Na}_2\text{CO}_3$ ) on the limit beyond which

it is impossible to mix the systems water/toluene/methanol and water/p-dioxane is investigated (F. N. Hayes, D. G. Ott, LASL Contract W-7405-Eng. 36). A Soviet  $\text{PY-19M}$  (FEU-19M) photomultiplier is used to measure the relative efficiency of scintillation solutions containing p-dioxane at various water contents and the dependence on the  $\beta$ -energies of certain

Card 1/3

X

Scintillation counting ...

Z/038/62/000/010/003/005  
D267/D307

to gamma background, and its beta detection efficiency is independent of the beta radiation energy. There are 7 figures and 3 tables. The most important English-language reference is R.B. Owen, 'Scintillation counters', Nuclear Power, v. 5, no. 54, 1960, 82-86.

ASSOCIATION: Radiologická dozimetrie ÚJV ČSAV (Radiological Dosimetry, ÚJV ČSAV)

Card 3/3



Scintillation counting ...

Z/038/62/000/010/003/005  
D267/D307

advantageous in the case of aqueous solutions of a relatively high activity, so as to make it possible to work with  $\gt 1$  ml of solution sample and  $\gt 10$  ml of the scintillator. As regards the use of heterogeneous mixtures (gel-like or solid scintillators) the results obtained by the authors are not reproducible. Both methods are suitable only for concentrations in excess of  $10^{-7}$  c/l: moreover, their detection efficiency is highly dependent on the energy of radiation, and large volumes of the scintillator produce a high background noise. To avoid these disadvantages it is recommended to work with evaporated residues. The authors determined the photon detection efficiency of the flat (thin) organic scintillator developed by R.V. Semova (Kernenergie, v. 2, 1959, 663-664). This scintillator, containing more than 90% of terphenyl, was found to give better results than other organic scintillators: the minimum amount of radioactive substance, that can be easily detected with this scintillator in conjunction with a simple electronic apparatus is about  $5 \times 10^{-11}$  c (when the probe is not protected with Pb). The new scintillator is characterized by a very small sensitivity

Card 2/3

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D267/D307

216000

AUTHORS: Klumpar, Josef and Majerová, Miroslava  
TITLE: Scintillation counting of aqueous solutions of  
beta emitters  
PERIODICAL: Jaderná energie, no. 10, 1962, 356-362

TEXT: The object of research was to develop a method of measurements in which the dependence of the detection efficiency of the apparatus on the energy of beta emission would be as small as possible. In the case of small concentrations an apparatus with the least background is the most advantageous. Whilst discussing the use of homogeneous mixtures (solutions) the authors adduce the data thus far available, and present in the form of tables their own results dealing with (1) the relative detection efficiency of scintillation solutions with p-dioxan for various water contents and various working potentials, and (2) the dependence of the detection efficiency of solutions with 11.1 and 33.3% of H<sub>2</sub>O on the energy of beta emission. The use of scintillation solutions is

Card 1/3

KLUMPAR, Josef; MAJEROVA, Miroslava

Scintillation measurement of aqueous solutions of beta radiators. Jaderna energie 8 no.10:256-262 0 '62.

1. Radiologicka dozimetrie, Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved.

KLUMPAR, Josef; MAJEROVA, Miroslava; JIROUSEK, Pavel

Determining the low concentration of radium in water by scintillation counting the electrodeposited decay products of radon. *Jaderna energie* 6 no.12:404-408 D '60.

1. Dosimetricke oddeleni, Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved.

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments.  
Methods of Measurement and Research

C-

Abs Jour : Ref Zhur Fizika, No 3, 1960, 5195

are made of tungsten wire 0.05 mm in diameter. A brief description is given of the influence of the liner on the results of the measurements of the activity of the compounds with different  $\beta$ -spectrum energy. The results of the measurements are compared with the data obtained with the aid of a GM counter with thin window. An analysis of the measurement errors is made.

Card 2/2

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments. C-  
Methods of Measurement and Research

Also Jour : Ref Zhur Fizika, No 3, 1960, 5195

Author : Klumpar Josef, Majerova Miroslava, Jirousek Pavel

Inst : Dosimetricke oddeleni UJV-CSAV, Prague, Czechoslovakia

Title : Dosimetry of Radioactive Isotopes Using a  $4\pi$ -Counter and  
Comparison of the Results Obtained with Measurements made  
with a G-M Counter

Orig Pub : Jaderna energie, 1959, 5, No 6, 190-193

Abstract : The authors describe the construction and give the basic  
parameters of a flow-through  $4\pi$ -counter, intended for the  
measurement of radioactive isotopes. The counter consists  
of two chambers, with individual anodes. Both chambers  
are separated by a thin liner, on which is deposited the  
measured radioactive compound. The anodes of the counter

Card 1/2

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments. C-2  
Methods of Measurement and Research

Abs Jour : Ref Zhur - Fizika, No 10, 1958, No 22173

Author : Klumppar J., Majerova M.  
Inst : Dosimetric Division, Institute of Nuclear Physics, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.  
Title : Effect of Amplification and Discrimination on the Form and Position of the Counter Characteristics of Geiger-Mueller Counters in Decade Scalers of Czechoslovak Manufacture

Orig Pub : Jaderna energio, 1957, 3, No 10, 304-305; discuss. 305-306, 320

Abstract : An investigation was made of the dependence of the form and position of counting width characteristics of Geiger-Mueller counters, used with decade scaler instruments of Czechoslovak manufacture. It turns out in these counters, at a high gain, there occurs a multiplication in the number of true pulses, so that when estimating the results it is possible to admit serious errors. Characteristics were obtained corresponding

Card : 1/2

MAJESTY, M

✓ 1305  
LADON CONTENT OF THE AIR. P. B. Sounek and M.  
MADROVA to Czechoslovak Academy of Sciences, Prague.  
NATURE 176, 1457 (1955) Dec. 30.

2



MAJEROVA, M., dr.

Complex development of the unified transportation system in  
the Soviet Union. Doprava no.2:153-155 '63.

MAJEROVA, M.

Review of surgical operations in the Second Ophthalmologic  
Clinic in Prague, 1945-50. Cesk. ofth. 7 no. 6:424-429  
Nov. 1951. (CMLL 21:3)

1. Of the Second Eye Clinic of Charles University, Prague  
(Head--Prof. J. Kurz, M. D.).

SPACEK, B.; PELESKA, B.; ZASTAVA, V.; HAMMER, J.; PISA, Z. Technicka  
spoluprace: RABL, M.; ELAZEK, Z.; ZMRHALOVA, A.; CERNA, H.; MAJEROVA, E.

Reversibility of cardiac contraction after temporary obstruction  
of the coronary arteries. Cas. lek. cesk. 104 no.1:1-11 8 Ja '65

1. Ustav klinicke a experimentalni chirurgie v Praze (reditel -  
prof. dr. B. Spacek, DrSc.) a Ustav pro choroby obehu krevniho  
v Praze (reditel - prof. dr. J. Brod, DrSc.).

PELESKA, B.; JELINEK, M.; Technicka spoluprace. Blazek, Z.; Rabi, M.; CERNA, H.; MAJEROVA, H.; ZICHALOVA, A.

Combined electrical reanimation unit. Rozh. chir. 43 no.4:253-258  
Ap '64.

1. Ustav klinicke a experimentalni chirurgie, Praha a Vyzkumny  
ustav zdravotnicke techniky, Brno.

CZECHOSLOVAKIA

SUCHY, V., HADA, K., MAJEROVA, A.

1. Department of Pharmacognosy, Faculty of Pharmacy, Comenius University  
(Katedra farmakognosie farmaceuticke fakulty University Komenskeho),  
Bratislava -- (for ?)

Bratislava, Farmaceuticky obzor, No 8-9, August/September 1965 pp 354-362

"Thin-layer chromatography in centrifugal field 1."

POGADY, J.; MAJEROVA, A.

Level of serum copper in mental patients in inhibitory states after insulin and in rats in model inhibitory states caused by insulin.  
Cesk. psychiat. 60 no.4:226-233 Ag '64.

1. Krajska psychiatricka liecebná v Pezinku a Ústav pre duševné  
lekárstvo Lekárskej fakulty University Komenského v Bratislave.

SILINK, K.; MAJEROVA, A.; CERNY, K.; VOHNOUT, S.; HOSCHL, R.

Investigation on I-131 and iodine fractions in differential  
diagnosis of carcinoma of the thyroid gland. Neoplasma, Bratisl.  
7 no.1 suppl:123-126 '60.  
(IODINE metab)  
(THYROID GLAND neopl)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031400026-6

MAJERNIK, Peter, kapitan

Tests of push navigation through the Danube Cataracts and their  
results. Doprava no.3:234-237 '63.



MAJERNIK, Peter, kapitan

The Bratislava harbor. Doprava no.9:308-310 '62.

CZECHOSLOVAKIA

MAJERNIK, Ondrej; Department of Pathological Physiology, Botanical Institute, Slovak Academy of Sciences (Oddelenie Patologickej Fyziologie Botanického Ustavu Slovenskej Akademie Vied), Bratislava.

"Indicators of Symptoms of Successful Growing or Premature Dying-Back of Apricot Trees in Slovakia."

Bratislava, Biologia, Vol 21, No 8, 1966, pp 595 - 601

Abstract [Author's English summary modified]: Adaptability of plum trees to their environment was investigated. The ability to adapt was evaluated on the basis of hydrogen-ion concentration, and other factors. When the pH of the roots of a given species is different from that of the soil substrate, such a taxon of the plum is unsuitable for the given region. The experiments indicated that apricots can be grown successfully throughout Slovakia. 2 Figures, 2 Tables, 4 Western, 8 Czech, 2 Russian, 1 East German reference. (Manuscript received 26 Oct 65).

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L 34538-66

ACC NR: AP6024715

ta. The stomatal opening of diseased leaves is limited by temperature. In diseased leaves the width of the aperture is not related to the intensity of transpiration. Orig. art. has: 5 figures.  
[Orig. art. in Eng.] [JPRS: 35,814]

SUB CODE: 06 / SUBM DATE: 16Sep65 / SOV REF: 003 / OTH REF: 008

Card 2/2 *dy*

L 34538-66 T JK

SOURCE CODE: CZ/0049/66/000/002/0099/0104

ACC NR: AP6024715

AUTHOR: Sempio, Cesare--Sempio, Ch. (Perugia); Majernik, Ondrej--Mayernik, O. 4/  
(Bratislava); Raggi, Vittorio (Perugia) 6

ORG: [Sempio; Raggi] Institute of Botanical Pathology, University of Perugia,  
Perugia (Istituto di Patologia Vegetale di Universita Perugia); [Majernik] Botanical  
Institute, Slovak Academy of Sciences, Bratislava

TITLE: Water loss and stomatal behavior of bean (*Phaseolus vulgaris* L.) infected  
by *Uromyces appendiculatus* (pers.) link

SOURCE: Biologia, no. 2, 1966, 99-104

TOPIC TAGS: fungus, plant disease, plant metabolism, plant respiration, transpiration, plant parasite

ABSTRACT: The total transpiration rate of beans infected by the fungus *Uromyces appendiculatus* was determined by the method of Ivanov, Silina and Tselniker (1950). The state of stomata was simultaneously investigated during the pathogenesis of the rust disease. When compared to controls, the respiration rate of the infected beans was reduced at the beginning of the infection; at later stages the leaves transpired more than the healthy ones. The break down of the photo- and hydro-reactions caused by the parasite was found by observation of stoma-

Card 1/2

09/5 2538

JANTOR, Anton; MAJERNIK, Andrej

Contribution to the adaptive capacity of various phytopathogenic  
fungi. Biologia (Bratisl.) 19 no.12:904-911 1964

1. Oddenie patologickych fyziologie BU Slovenskej akadémie vied,  
Bratislava.

L 60306-65

ACCESSION NR: AF5021086

ASSOCIATION: Oddelenie patologické fyziologie BU SAV, Bratislava (Department of Pathological Physiology, BU SAV)

SUBMITTED: 13 May 64

ENCL: 00

SUB CODE: 15

NO REF SO: 003

OTHER: 007

JPRS

Card 2/2

E 60306-6 EWA(b)-2/EWA(j)/EWT(G) JK

ACCESSION NR: AP021086

02/0049/64/000/012/0904/0911

AUTHOR: Janitor, Anton (Janitor, Anton) (Engineer) (Bratislava) Majernik, Ondrej  
(Majernik, Ondrej) (Engineer, Candidate of sciences) (Bratislava)

TITLE: Contribution to the adaptability of some phytopathogenic fungi

SOURCE: Biologia, no. 12, 1964, 904-911

TOPIC TAGS: fungi, plant parasite, plant growth, plant ecology

Abstract: Adaptation ability of fungi *Monilia laxa* and *Trichoderma viride* was investigated. The fungi were grown in vitro in solutions of saccharides; tannin, methylene blue were used as antagonistic agents, and the growth was evaluated planimetrically by the intensity of the mycelium growth. When enough food is available the antagonistic agents do not interfere with the growth. When insufficient source of energy in the medium was used, the inhibitive action of the antagonistic agents was very strong. It is therefore possible that inhibiting agents may be used to suppress growth of parasitic fungi, and reduce their pathogenic effects. Orig. art. has 10 figures.

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CZECHOSLOVAKIA

MAJERNIK, Onrej, and JANITOR, Anton; Department of Plant Pathophysiology, Institute of Botany of the Slovak Academy of Sciences, Czechoslovak Academy of Sciences, Bratislava.

"Effect of Toxic Substances on Plant Tissues, as Determined with the Aid of Radioactive Phosphorus  $p^{32}$ ."

Bratislava, Biologia, Vol 18, No 7, 1963; pp 489-497.

Abstract [Russian Article, English summary modified]: Branch sections of Prunus armeniaca L and Solanum lycopersicum dipped into 0.14 M or 0.01 M  $NH_4OH$  or 0.01 M fusaric acid with or without 10 ml. aqueous solution of  $p^{32}$ -orthophosphoric acid. Radioactivity appeared in leaves within 2 hours, especially high in the apricot branches; at the 20th hour the activity was much higher in both experimental sets than in controls; at the 48th hour the apricot branchlets were still absorbing  $p^{32}$ . Main mode of toxic action was ascribed to interference with closing of stomata. Two drawings, 5 tables; 1 Soviet, 4 Czech (whereof 2 unpublished) and 8 Western references.



CZECHOSLOVAKIA

Ondrej MAJERNIK and Fridrich FRIG, Department of Plant Physiology,  
Biological Institute of the Slovak Academy of Sciences (Oddelenie  
fyziolgie rastlin, Biologicky ustav Slovenskej akademie vied),  
Bratislava.

"Premature Withering and Deaths of Apricots with Regard to Metabolic  
Changes."

Bratislava, Biologia, Vol 10, No 1, 1963; pp 5-14.

Abstract [German summary modified]: Determination of saccharose,  
glucose and fructose; fluids; tannic acid; malic and citric acids;  
and free ammonia in the region where the lesion appears and in distal  
parts of the branches, comparing with healthy controls at various  
times of year. There was a decrease in fluids and glycolates, with  
increase in ammonia, in the primary lesion area, while glycolates  
accumulated in distant regions. A 'critical period' following the  
vegetative cycle would determine death or trees if defoliation came  
at same time. Six diagrams; 2 Czech, 2 Soviet, 2 Western-language  
references. 1/1

MAJERNIK, Ondrej

A new trend in physiological research in Italy. *Biologia* 17 no.3:  
234-236 '62.

(PHYSIOLOGY)

MAJERNIK, Ondrej

Problems of scientific research of plant physiology in Austria.  
Biologia 16 no.9:704-705 '61.

(Botany)

MAJERNIK, Ondrej, inz., C.Sc.; NIZNANSKY, Augustin, prom. mat.

Problem of metabolism in an injured apricot. Biologia 16 no.6:445-458  
'61.

(Apricot)

MAJERNIK, Ondrej

In commemoration of the 75th birthday of professor Edvard Baudys.  
Biologia 16 no.5:388-389 '61.

(BAUDYS, EDVARD) (BOTANY)

MAJERNIK, Ondrej

Periodicity of the growth of the apricot tree in relation to its  
premature dying. Biologia 16 no.2:110-121 '61. (EEAI 10:8)

1. Biologicky ustav Slovenskej akademie vied, Oddelenie fysiologie  
rastlin, Bratislava.  
(APRICOT) (GROWTH(PLANTS))

MAJERNIK, Ondrej

Effect of artificially induced infection and injuries on the  
transpiration of the apricot Prunus armeniaca L. Biologia 15  
no.11:801-809 (60. (EEAI 10:5)

1. Biologicky ustav Slovenskej akademie vied, Oddelenie fyziologie  
rastlin, Bratislava.  
(APRICOT)

MAJERNIK, Ondrej

A rare anniversary in the scientific life of Eastern Germany.  
Biologia 15 no.10:795-796 '60. (EEAI 10:5)

(GERMANY, EASTERN---BOTANY)



MAJERNIK, Ondrej

Problems concerning studies of plant immunity in the U.S.S.R. Biologia  
15 no.9: 706-708 '60. (EEAI 10:4)

1. Biologicky ustav Slovenskej akademie vied, Oddelenie fyziologie  
rastlin, Bratislava.  
(PLANTS)

MAJERNIK, Ondrej

Some interesting novelties in Soviet physiology. Biologia 15 no.6:  
473-474 '60. (EEAI 9:10)  
(RUSSIA--PLANTS)

MAJERNIK, Ondrej; LACOK, Pavol; STANOVA, Maria

Investigation of the toxic dependence of certain agents in relation  
to the dieback disease of apricots (*Prunus armeniaca* L.). *Biologia*  
15 no.2:32-52 '60. (EBAI 9:5)

1. Biologicky ustav Slovenskej akademie vied, Oddelenie fysiologie  
rastlin, Bratislava.

(APRICOT)

MAJERNIK, O.

Problems concerning the resistance of plants against diseases and pests in the German Democratic Republic. p. 307

BIOLOGIA. (Slovenska akademia vied) Bratislava, Czechoslovakia, Vol. 14, no. 4, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959  
Uncl.

MAJERIK, O.: STANOVA, M

"Effect of temperature on some mushrooms with regard to the premature dying  
of striped trees (Prunus armeniaca L.)"

BIOLOGIA, Bratislava, Czechoslovakia, Vol. 14, no. 1, 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 3, No. 6, Sept 59  
Unclass

HAJERNIK, O.

"Present state of phytopathology in Switzerland."

p. 223 (Fitologia, Vol. 13, no. 3, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (MEEA) D2, Vol. 1, no. 9,  
September 1958

MAJERIK, O.

"Effect of low temperatures on the quiescence of the larvae of the bark beetle Scolytus regulosus Mull."

p. 93 (Biologia, Vol. 11, no. 2, 1968, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EE I) VI, Vol. 1, no. 2,  
September 1958

CZECHOSLOVAKIA / Plant Diseases. Cultivated Plants.

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58906.

Abstract: also considerably increased. This is explained by the higher adaptability of the fungus to local conditions. The task was fulfilled in the laboratory for the protection of plants of the Slovak Academy of Sciences. -- P. M. Shterenberg.

Card 3/3



CZECHOSLOVAKIA / Plant Diseases. Cultivated Plants.

0

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58906.

**Abstract:** by the appearance of mildew spots along the leaf edges where raindrops are retained more often, whereas during the infection at dew time spots develop principally along the leaf veins. The conducted calculations indicated that, in the summer period, the infection at dew time is greater than during rainfall. Biometric investigations established that the sporangia attain their maximum length at 100% of relative atmospheric humidity, whereas a more intensive ramification of the sporangia and their greatest number are formed at the relative atmospheric humidity of 90%. The measurement of the sporangia in 1954-1955 indicated a considerably greater length than in 1897, according to the data submitted by Bubak. Since that time, the destructiveness of the disease

Card 2/3

CZECHOSLOVAKIA / Plant Diseases. Cultivated Plants. O

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58906.

Author : Majernik, O.; Foltyn, O.

Inst : Not given.

Title : The Effect of Certain Climatic Factors on the  
Development of Grapevine Peronosporos.

Orig Pub: Biologia, 1957, 12, No 6, 421-432.

Abstract: The study of the biology of *Plasmopara viticola* in the environs of Bratislava and other regions of Czechoslovakia indicated that the development of the disease in suitable temperature and humidity conditions takes place not before the third incubation period of the fungus development. The low soil humidity (less than 20%) reduces the infection on account of the reduced turgor of the leaves. The infection\* rain is characterized

\*during

Card 1/3

MAJERNIK, O.

Notes on agricultural research in Yugoslavia.

P. 387, (Biologia) Vol. 12, no. 5, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EFAI) Vol. 6, No. 11 November 1957

MAJERIK, O.

"Contribution to the biology of Scolytus regulosus Mull."

p. 69 (Biologické Prace, Vol. 3, no. 6, 1957, Bratislava, Czechoslovakia.)

Monthly Index of East European Accessions (EMEA) LC, Vol. 7, No. 6, June 1958.

COMPANY :  
ADDRESS : GENERAL & SPEC. ZOOLOG. JORDANS

Ref. Journal of Polymer Science, 1959, 40, 1-20

|          |   |
|----------|---|
| ADAMS    | 1 |
| ALLEN    | 1 |
| ANDERSON | 1 |

ORIG. PUB.:

CHES : 2/2

COUNTRY : Czechoslovakia  
 CATEGORY : ENTOMOLOGY, INSECTS  
 ABS. JOUR : Insect and Mite Fauna  
 : Vestn. Zool.-Biologiya, No. 4, 1959, No. 1017  
 AUTHOR : Majer, J., Andrej  
 INST. :  
 TITLE : The biology of the beetle *Agathidium*

ORIG. PUBL. INFO. : 1959, 4, 1017, 17-20

ABSTRACT : The biology of the beetle *Agathidium* is described on the basis of observations made in the field and in the laboratory. The life cycle of the beetle is described, including the stages of development, the duration of the life cycle, and the conditions of development. The biology of the beetle is described in detail, including the habits, the food, the reproduction, and the distribution. The beetle is found in the soil, in the litter, and in the decaying organic matter. It is a common pest of stored food and of the soil. The beetle is found in the soil, in the litter, and in the decaying organic matter. It is a common pest of stored food and of the soil.

CARD: 1/2

*Majernik O.*  
CZECHOSLOVAKIA/General Division. History. Classics. Personnel.

A-2

Abs Jour: Ref. Zhur. Biologia, No 4, 1958, 14176

Author : Majernik O.

Inst

Title : To the Seventieth Year of Professor of Phytopathology, Engineer  
E. Baudys

Orig Pub: Biologia, 1956, 11, No 12, 762.

Abstract: No abstract.

Card : 1/1

-36-

MAJERNIK, O.

MAJERNIK, O. The root-parasite fungus Roesleria pallida (Pers ex Fr.) Sacc. on the grape-vine in Slovakia. p. 558.

Vol. 11, No. 9, 1956.

BIOLOGIA

SCIENCE

Bratislava, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, Feb. 1957



MAJERNIK, J.

TAKAC, M.

Czechoslovakia

Internal/Medicine/Clinic, Medical Faculty, Safarik University  
(Z internej kliniky Lek. fak. Safarikovej Univerzity v Kosi-  
ciach), Kosice; Director: F. POR, MD.

Brno, Vnitřní lékařství, No 10, Oct 62, pp 1105-1109.

"Ballistocardiogram in Complete Atrioventricular Block."

Co-authors:

MAJERNIK, J., MD, Director, Deptment of Internal Medicine  
~~OUNZ~~ (Z Interného oddelenia OUNZ Humenne); ROZLOZNIK, J.,  
Department of Internal Medicine OUNZ Humenne.

PIALA, Jaroslav, MUDr. CSc.; Technická spolupráce: MAJERIKOVA, Zdena

*Our experience with the blood preserved with A.C.D. and heparin.*  
Vnitřní lek. II no.8:756-760 Ag '65.

1. Ústav hematologie a krevní transfuze v Praze (ředitel prof.  
MUDr. Jaroslav Horejší, Dr.Sc., člen korespondent Československé  
akademie věd).

MAJERNIK-STARACHOWICZ, Jadwiga.

Otogenous brain abscesses. Otolar. polska 9 no.3:205-213 1955.

1. Z Kliniki Otolaryngologicznej A.M. w Krakowie. Kierownik:  
prof. dr. J.Miodonski. Otolar. polska 9 no.3:205-213 1955.

(BRAIN, abscess,  
otogenous)

(ABSCESS,  
brain, otogenous)

(EAR, diseases,  
causing brain abscess)

MAJERCZYK, Joanna

"An interesting cube" by Aniela Ehrenfeucht. Reviewed by  
Joanna Majerczyk. Rocznik matematyczny 6 no.2:287-288 '63.

MAYYERCHIK, I. [Majerczyk, I.] (Varshava)

Separatrices of plane dynamic systems. Mat. sbor. 59 (dop.):53-66  
'62. (MIRA 16:6)  
(Topology)

CZECHOSLOVAKIA / Farm Animals. Swine

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21487

Author : Majerciak Pavol

Inst :

Title : Let Us Make the Ways of Raising Young Pigs Approach  
Natural Summer Conditions (Priblizim vospitaniye  
porosyat k prirodnyam usloviyam letnego vremeni)

Orig Pub: Nas chov, 1957, No 11, 303-305

Abstract: The first group of sows together with young pigs from the summer litter (March-August), and the 2nd group of the winter litter (September-February) were kept in hog-stalls and were not allowed to go out; the 3rd group (summer litters) and the 4th group (winter litters) were permitted to pasture and were let out onto appropriate ground in winter to root about with their snouts. The average weight of one

Card 1/2

CZECHOSLOVAKIA / Farm Animals. Swine

Q-4

Abs Jour: Ref Zhur-Biol., No. 3, 1958, 12137

Abstract: 122.84 and 121.9 kg. respectively; the average daily increase in weight - 658, 608 and 602 g.; the consumption of digestible protein per 1 kg. of weight increase - 0.40, 0.40 and 0.41 kg., and that of starch units - 3.01, 2.94 and 3.05; the weight of the carcass was 83.2, 82.2 and 81.6%. Fasting on Sundays, for not more than 18 hours, with the exclusion of the day and evening feeds from the feeding schedule, is considered admissible, while fasting for 24 hours is not allowable.

Card 2/2

CZECHOSLOVAKIA / Farm Animals. Swine

Q-4

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12137

Author : Landau Ladislav, Majerciak Pavol

Inst :

Title : The Effect of the Regular "Fast" of Short Duration upon the Increase in Weight and Utilization of Feeds in Swine during Their Fattening (Vliyaniye regul'yarnogo kratkovremennogo "posta" na prives i ispol'zovaniye kormov u sviney vo vremya otkorma)

Orig Pub: Pol'nohospodarstvo, 1957, 4, No 2, 209-249

Abstract: Tests were carried out on 3 groups of young pigs. The first group (the control) was fed, on Sundays, three times, the second one - once, in the morning, and the third one was not fed during the whole day. After 163 days of fattening, the following results were reached: the average live weight was 131.1,

Card 1/2



MAJERČIAK, Pavol

✓ The addition of sunflower seed oil-cakes and of sunflower plant rejects to hog fodder. Pavol Majerčiak. *Pol'no-khospodarsivo* 3, 180-71(1956) (Russian and German summaries).—Three groups of shoats were employed. Animals of the control group (Group I) received a basic ration which consisted of potatoes, barley, corn, oats, rye, dried blood, protein mixture, dry clover, and mineral additives. Animals of group II received in addn. 0.15-0.50 kg./head/day of sunflower rejects, and animals of Group III received in addn. to the basic diet similar amts. of sunflower seed oil-cake material. Exptl. feedings extended over 174 days. The av. daily increase in the wt. of shoats of Group I was 0.475 kg., of group II 0.522 kg., and of Group III 0.537 kg. To bring about a wt. gain of 1 kg. in the animals of Group III 10.6% less of fodder was required than for the animals of Group II. This was thought to be due to the greater fat or oil content of the oil-cake additives and to their favorable effect on the metabolic processes, especially on protein metabolism. The backs of the pigs of Group II accumulated 0.18% less fat than those of Group III. In all three groups more of the accumulated fat was distributed among their general tissues than was stored on their backs. The total slaughter-productivity of Group III exceeded that of Group II by 2.9%. M. recommends that from the start the feeding rations of young pigs be supplemented sufficiently with suitable oils and fats. Neither of the additives used as supplements to the basic ration in the exptl. feedings produced any unfavorable effects on either the taste or flavor of the resulting pork. B. S. Levine

MAJERCAK, Fabian

We are increasing the qualification of workers. Siln  
doprava 12 no.1:3 Ja '64.

POIAND / Farm Animals. Honey Bee. Q

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40554.

Author : Majeranowski Ludwik.

Inst : Not given.

Title : Meadows as Foraging Ground for Bees.

Orig Pub: Pszczelarstwo, 1957, 8, 235-238.

Abstract: No abstract.

MAJER, Wacław

Short wave therapy of inflammatory uterine bleeding. Polski tygod.  
lek. 9 no.49:1684-1686 6 Dec 54.

1. Z oddziału ginek. Szpitala Miejskiego nr 1 w Walbrzychu; ordyn.  
dr W.Majer.

(MENORRHAGIA AND METRORRHAGIA, therapy,  
short wave ther. of metrorrhagia)

(DIATHERMY, in various diseases,  
short wave ther. of metrorrhagia)

MAJER, Vl.

Sixty-fifth birthday of Academician Frantisek Behounek. Chez listy  
57 no.10:1103-1104 0 '63.

MAJER, Vladimir

Albite granite in the conglomerates of the diabase-hornstone formation near Prisoje, Bosnia. Geol vjes Hrv 15 no.2:365-368 [publ. '63].

1. Zavod za mineralogiju, petrologiju i rudna lezista, Tehnoloski fakultet, Zagreb, Pierotijeva ul. b.b.

MAJER, Vladimir; JURKOVIC, Ivan, dr. inz.

A note on the finding of chromium spinel at Celinac, Bosnia.  
Geol vjes Hrv 15 no.2:337-339 '61 [publ. '63].

1. Institut fur Mineralogie, Petrologie and Erzlagerstatten,  
Technologische Fakultat, Zagreb, Pierotijeva 6.b.
2. Clan Urednickog odbora i referent, "Geoloski vjesnik" (for  
Jurkovic.

## Principles of Nuclear Chemistry (Cont.)

Z/6221

technology, and principles of thermonuclear processes are reviewed. The following are some of the personalities mentioned: J. Kaspar, Professor, Doctor, Corresponding Member, CSAV; J. Cabicar, Doctor, Candidate of Sciences, J. Růžicka, A. Gosman, Z. Spurny, Candidate of Sciences, and M. Podest, Engineer, all of FTJF, CVUT; F. Behounek, Academician; J. Klumpar, Doctor, CSAV; and M. Majerova, Doctor, wife of the principal author of this text. There are 1076 references, Czech and non-Czech.

## TABLE OF CONTENTS [Abridged]:

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Z/6221

Principles of Nuclear Chemistry (Cont.)

**PURPOSE:** This textbook is intended for students in schools of higher education, as well as for research and industrial personnel concerned with the peaceful uses of atomic energy and radioactive isotopes.

**COVERAGE:** The textbook deals with the principles of nuclear chemistry. Elementary concepts of the structure of matter and atoms and of the origin and development of nuclear chemistry and radiochemistry are reviewed in the foreword. The main text is devoted to nuclear reactions, natural and artificial radioactivity, nuclear fission, and the chemistry of 1) nascent atoms, 2) interaction of nuclear radiation with matter, 3) radioactive elements and isotopes, and 4) radioactive tracers. Working methods and techniques, preparation of natural and artificial radioactive compounds and stable isotopes, preparation of tagged compounds, and methods of separation, concentration, and isolation of radioactive compounds and isotopes are described in detail. Uses of nuclear chemistry in analytical chemistry and technology, principles of nuclear chemical

Card 2/H

JUN 25 1963

PHASE I BOOK EXPLOITATION Z/6221

Majer, Vladimír, Docent, Engineer, Doctor.

Základy jaderné chemie (Principles of Nuclear Chemistry). Prague, SNTL, 1961. 607 p. Errata slip inserted. 2500 copies printed.

Collaborators: Ladislav Drška, Engineer, Department of Nuclear Physics (FTJF) of the Technical University of Prague (ČVUT); Bohumír Chutný, Engineer, Doctor, Vladimír Kačena, Doctor of Natural Sciences, and Jaromír Malý, Engineer, all of the Institute of Nuclear Research (ÚJV), Czechoslovak Academy of Sciences (ČSAV); and Adolf Zeman, Doctor of Natural Sciences, FTJF, ČVUT.

Reviewers: Jiří Teplý, Engineer, Candidate of Sciences, ÚJV, ČSAV, and Cestmír Jech, Doctor of Natural Sciences, Candidate of Sciences, of the Institute of Physical Chemistry, ČSAV; Chief Ed. for Chemical Literature: Adolf Balada, Doctor of Natural Sciences; Resp. Ed.: Vladimír Spáčil, Engineer; Tech. Ed.: Ludvík Charvát.

Card 1/3

MAJER, V.

Report on the finding of new minerals in the so-called Serpentine  
Zone near Beslinac, Croatia. Bul sc Jug 5 no.2:42 'Mr '60. (EEAI 9:8)

1. Geologisches und Mineralogisches Institut der Naturwissenschaftlichen  
Fakultat, Skopje.  
(Croatia--Minerals)